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## **FINDING AND RECOMMENDATION(S)**

**Submitted by:** The Tahoe Regional Planning Agency

### **Finding:**

#### **Centralized Parcel-Based Wildfire Hazard Data Collection and Management**

Lake Tahoe is in need of centralized storage and administration of parcel-based wildfire hazard data. There should be a single source for storage and management of this data, with distributed data administration capability. Availability of this hazard data should be:

- readily available
- in an easily understood format
- available to the public via the Internet
- kept up to date as conditions change

### **Background and Supporting Evidence:**

Similar to the work done by the City of Colorado Springs (<http://csfd.springsgov.com/Firewise/viewermap.aspx>), the Lake Tahoe Basin needs to develop a web-based wildfire hazard assessment system for all Lake Tahoe Basin parcels. This data will allow for:

- quick citizen access to wildfire risk data via the Internet
- basin-wide analysis of wildfire risk areas
- Internet access by fire district representatives for data administration

The Tahoe Integrated Information Management System (TIIMS) [www.tiims.org](http://www.tiims.org) is an information management infrastructure developed for centralized administration of various kinds of basin-wide data. It is managed by the TIIMS Team and currently hosts (among many other data sets) a complete and updated basin-wide parcel database and associated parcel information. The TIIMS infrastructure is centralized, web-based, and scalable with geospatial tools (interactive parcel-based mapping capabilities), various database-driven web-based data entry tools, and many other public outreach datasets.

## Recommendation(s):

Continued support and enhancement of the TIIMS Team, infrastructure, associated datasets, and web pages would allow for centralized storage, maintenance and administration of wildfire risk data. TIIMS should be utilized as the central point and infrastructure for storage, collection and updates of parcel and wildfire hazard data throughout the Lake Tahoe Basin.

## Impacts of Implementation:

☐ Cost - The following data analyzes augmentations required to the existing TIIMS infrastructure to facilitate the proposed recommendations.

<b>Staff *</b>	<b>Initial Cost</b>	<b>Ongoing Costs</b>
Database and System Administration	\$0	\$20,406
Web development	\$30,000	\$17,620
Coordination, Contract management, Content writing and Training	\$0	\$19,058
Data entry	\$40,000	\$57,569
Overhead		\$77,964
<b>Total</b>	<b>\$70,000</b>	<b>\$192,617</b>
<b>Hardware **</b>	<b>Initial Cost</b>	<b>Annual Cost</b>
<b>Servers and Storage</b>	\$50,000	\$25,000
Web server		
ArcSDE server		
Domain & backup server		
Email & SharePoint server		
Imagery fly over servers		
<b>Miscellaneous:</b>	\$0	\$10,000
Parts, upgrades and maintenance for existing equipment		
<b>Router, firewall &amp; VLAN:</b>	\$0	\$1,000
<b>Dedicated T1 line:</b>	\$0	\$14,000
<b>Staff computers (3):</b>	\$0	\$2,000
<b>Wireless Devices</b>	\$20,000	\$5,000

<b>Total</b>	<b>\$70,000</b>	<b>\$57,000</b>
	<b>Initial Cost</b>	<b>Annual maintenance costs</b>
<b>Software ***</b>		
<b>SQL Server:</b>	\$0	\$2,500
Upgraded as needed; not on a maintenance schedule.		
<b>Windows/Web Server:</b>	\$0	\$250
Upgraded as needed; not on a maintenance schedule.		
<b>ArcGIS</b>	\$0	\$3,500
<b>Search Software</b>	\$0	\$200
<b>Content Management Software</b>	\$0	\$750
<b>Anti-virus Software</b>		\$203
<b>Collaboration Software</b>	0	0
<b>MS Exchange:</b>	\$15,000	\$1,000
<b>Fly-over Imagery:</b>	\$70,000	\$23,334
Annual cost included so imagery can be re-flown every 3 years.		
<b>Desktop computer software:</b>	\$0	\$1,000
Visio Pro, Photoshop, Adobe Acrobat, Visual Studio		
<b>Total</b>	<b>\$85,000</b>	<b>\$32,737</b>
<b>Grand Total</b>	<b>\$225,000</b>	<b>\$282,354</b>

<b>Total TIIMS Budget Augmentation For Defensible Space</b>		
	<b>Initial Costs</b>	<b>Annual Costs</b>
<b>Staff &amp; Overhead</b>	<b>\$70,000</b>	<b>\$192,617</b>
<b>Hardware</b>	<b>\$70,000</b>	<b>\$57,000</b>
<b>Software</b>	<b>\$15,000</b>	<b>\$9,403</b>
<b>Fly-over Imagery</b>	<b>\$70,000</b>	<b>\$23,334</b>
<b>Total</b>	<b>\$225,000</b>	<b>\$282,354</b>

**TIIMS Current Annual Budget** **\$470,400**

**\* 25% of Current TIIMS Total Labor Costs**

**\*\* All hardware is on a 4 year upgrade schedule**

**\*\*\* 25% of current TIIMS Software, 100% of newly required software**

☐ Funding source

TIIMS is currently funded through October 2008 through a Southern Nevada Public Lands Management Act (SNPLMA) grant. Funding beyond October 2008 has not yet been identified. The costs of the recommended augmentations could be shared among participating Agencies and Fire Districts. While the TIIMS Team continues to pursue additional grant funding, operations and maintenance costs often cannot be paid through such funding.

☐ Staffing - TIIMS is currently staffed with a TIIMS Coordinator, a database administrator, and a project assistant. For implementation of the proposed recommendations, one additional position (data entry technician) is proposed.

☐ Existing regulations and/or laws - None.

Analysis of impacts on the following factors is OPTIONAL:

- ☐ Operational
- ☐ Social
- ☐ Political
- ☐ Policy
- ☐ Health and Safety
- ☐ Environmental
- ☐ Interagency